



K24P 0263

Reg. No. :

Name :

**IV Semester M.Sc. Degree (C.B.S.S. – Reg./Supple. – (One Time Mercy
Chance)/Imp.) Examination, April 2024
(2014 Admission Onwards)
BOTANY
BOT4 E 05 : Seed Technology**

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following. (2×8=16)

- 1) Explain the physiology and biochemistry of seed germination.
OR
- 2) Give an account on post-independence development in seed technology in India.
- 3) What are the different types of seed storage ? Mention the seed factors affecting storage life.
OR
- 4) Give an account on seed production in self-pollinated crops.

II. Answer **any two** of the following. (2×6=12)

- 5) a) What is stratification ? 1
- b) Differentiate primary and secondary dormancy. 2
- c) Discuss various causes of seed dormancy. 3
- 6) a) What is the validity period of seed certificate ? 1
- b) What is physical purity ? 2
- c) What are the physical quality parameters ? 3
- 7) a) What is the tag colour of certified seed ? 1
- b) What is nucleus seed ? 2
- c) Differentiate between certified seed and truthful labelled seed. 3

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III. Answer **any six** of the following. (6×3=18)

- 8) Discuss the stages of seed crop inspection.
- 9) How can genetic purity be maintained during seed production ?
- 10) Discuss the effects of storage environment on seed deterioration.
- 11) Give a brief account on maintenance of inbreed lines.
- 12) Describe briefly seed certification standards.
- 13) Explain the functions of NSC.
- 14) Write a note on germplasm bank.
- 15) Discuss the role of seed industries in India.

IV. Answer **any seven** of the following. (7×2=14)

- 16) Define seed.
- 17) What is meant by breeder seed ?
- 18) Write a note on roughing.
- 19) What is composite sample ?
- 20) Mention the goals of seed technology.
- 21) What is meant by "off type" ?
- 22) Define seed priming.
- 23) What is meant by pollen shedders ?
- 24) Write a note on seed coat characters.
- 25) What is DUS test ? What is its use ?